

Server & desktop backup solutions

The first backups will take a while. The following ones are much faster, but it depends on how much you change. Only the changes are saved.

rsync

Follow our [rsync](#) tutorial first.

The snapshots are stored locally and remotely via rsync daemon.

This backup solution is only recommended for an internal network. Use an encrypted backup method with [borg](#) instead.

Dependencies

The script needs inetutils for hostname command.

```
pacman -S inetutils
```

Credentials

```
echo "$password" > /etc/rsyncd.password  
chmod 400 /etc/rsyncd.password
```

Script

Add your details for DAEMONUSER="" and DAEMONHOST="".

```
nano /root/rsnapbackup.sh
```

```
#!/bin/sh  
  
## Based on:  
## my own rsync-based snapshot-style backup procedure  
## (cc) marcio rps AT gmail.com  
  
# config vars  
  
SRC="/"   
SNAP="/root/backup/"  
OPTS="--rltogiPhv --stats --delay-updates --delete --chmod=a-w"  
EXCL="--exclude-from=/root/backup-filter.rule"  
DAEMONUSER=""
```

```
DAEMONHOST=""
HOSTNAME=$(hostname)
MINCHANGES=1

# run this process with real low priority

ionice -c 3 -p $$
renice +12 -p $$

# List and save installed packages
pacman -Qn | awk '{ print $1 }' > /root/pkglist

# sync

rsync $OPTS $EXCL $SRC $SNAP/latest >> $SNAP/rsync.log

# check if enough has changed and if so
# make a hardlinked copy named as the date

COUNT=$( wc -l $SNAP/rsync.log | cut -d" " -f1 )
if [ $COUNT -gt $MINCHANGES ] ; then
    DATETAG=$(date +%Y-%m-%d-%H:%M)
    if [ ! -e $SNAP/$DATETAG ] ; then
        cp -al $SNAP/latest $SNAP/$DATETAG
        chmod u+w $SNAP/$DATETAG
        mv $SNAP/rsync.log $SNAP/$DATETAG
        chmod u-w $SNAP/$DATETAG
    fi
fi

rsync -avAXHP --delete --password-file=/etc/rsyncd.password $SNAP
rsync://$DAEMONUSER@$DAEMONHOST/archive/backup/$HOSTNAME

chmod +x /root/rsnapbackup.sh
```

Exclude folder and files

This is an example. Add anything you don't need to backup. And change home \$USER.

```
nano /root/backup-filter.rule
```

```
/dev/*
/proc/*
/sys/*
/tmp/*
/run/*
/mnt/*
/media/*
/lost+found
```

```
# root user
/root/backup/*
/root/.cache/*
# Home user
/home/$USER/.cache/*
```

borg

Work in progress

Follow our [borg](#) tutorial first.

The snapshots are stored remotely via ssh.

Crontab - rsync and borg

Follow our [crontab](#) tutorial first and add the following for your root user:

```
@daily /root/rsnapbackup.sh
```

```
@daily /root/bsnapbackup.sh
```

- @yearly
- @annually
- @monthly
- @weekly
- @daily
- @hourly
- @reboot

Syncthing

Follow our [Syncthing](#) tutorial for both devices (backup server and your data device).

Add device

Add the backup server to your client under Remote Devices.

Add folder

- Add a folder under Folder and select the folder you want to backup under General.
- Select your backup server under Sharing.
- Under File Versioning you could add Staggered File Versioning which gives you more certainty, but have a look at <https://docs.syncthing.net/users/versioning.html> and choose

what suits you best.

- Also check Advanced and Folder type and again choose what suits you best. For example, Keepass can be used with Send & Receive if you want sync your database on both devices.

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